10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

RPS4X Antibody (C-Term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP22116b

Product Information

Application	WB, FC, E
Primary Accession	P62701
Other Accession	Q76N24, P62705, Q76MY1, P62704, O62738, P62702, P62703, O62739, P79103, P47836, P47961, P49401, Q6PBC4
Reactivity	Human, Mouse, Rat
Predicted	Bovine, Chicken, Mouse, Rat, Canine, Rabbit
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB56174
Calculated MW	29598

Additional Information

Gene ID	6191
Other Names	40S ribosomal protein S4, X isoform, SCR10, Single copy abundant mRNA protein, RPS4X, CCG2, RPS4, SCAR
Target/Specificity	This RPS4X antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 209-243 amino acids from the human region of human RPS4X.
Dilution	WB~~1:2000 FC~~1:25 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	RPS4X Antibody (C-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

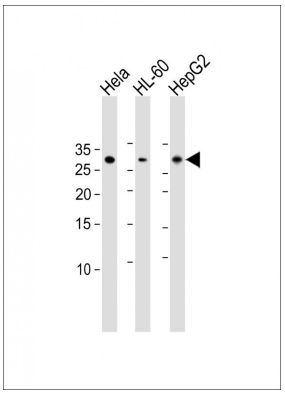
Name	RPS4X (HGNC:10424)
Synonyms	CCG2, RPS4, SCAR

Function	Component of the small ribosomal subunit. The ribosome is a large ribonucleoprotein complex responsible for the synthesis of proteins in the cell (PubMed:23636399). Part of the small subunit (SSU) processome, first precursor of the small eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus, many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with the nascent pre-rRNA and work in concert to generate RNA folding, modifications, rearrangements and cleavage as well as targeted degradation of pre-ribosomal RNA by the RNA exosome (PubMed:34516797).
Cellular Location	Cytoplasm. Nucleus, nucleolus. Note=Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

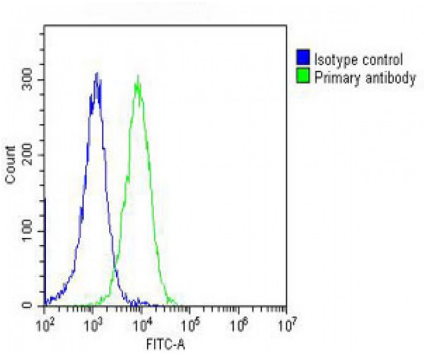
References

Fisher E.M.C.,et al.Cell 63:1205-1218(1990).
Watanabe M.,et al.J. Cell Sci. 100:35-43(1991).
Zuo L.,et al.Submitted (JAN-1998) to the EMBL/GenBank/DDBJ databases.
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
Dmitrenko V.V.,et al.Submitted (APR-1996) to the EMBL/GenBank/DDBJ databases.

Images



All lanes: Anti-RPS4X Antibody (C-Term) at 1:1000 dilution Lane 1: Hela whole cell lysate Lane 2: HL-60 whole cell lysate Lane 3: HepG2 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 30 KDa Blocking/Dilution buffer: 5% NFDM/TBST.



Overlay histogram showing Hela cells stained with AP22116b (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP22116b, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.